

CLAIMS

We claim:

5 1. A method for providing high speed, digital telecommunications service from a site of an existing telecommunications serving area interface comprising a first enclosure wherein subscriber lines are cross-connected to a telecommunications trunk to provide voice telecommunications
10 services to subscribers through said subscriber lines, the method comprising the steps of:

providing an enlarged enclosure at the site of said first enclosure;

15 incorporating into said enlarged enclosure, along with feeder and distribution blocks, a broadband electronic multiplexer connected to a provider through a high-speed interface; and

connecting said multiplexer through plural data connections to said distribution blocks, thereby providing high speed, digital telecommunications service at least to selected ones of
20 said subscribers.

2. A method for providing digital subscriber line service from a site of an existing telecommunications serving area
25 interface comprising a first enclosure wherein subscriber lines are cross-connected to a telecommunications trunk to provide voice telecommunications services to subscribers through said subscriber lines, the method comprising the steps of:

30 providing an enlarged enclosure at the site of said first enclosure;

incorporating into said enlarged enclosure, along with feeder and distribution blocks, a digital subscriber line access multiplexer connected to a digital subscriber line provider through a high-speed
35 interface; and

connecting said digital subscriber line access multiplexer through plural data connections to said distribution blocks, thereby providing digital subscriber line service at least to selected ones of said subscribers.
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3. A method of retrofitting a telecommunications serving area interface comprising an enclosure, and feeder and

distribution blocks within said enclosure, the distribution blocks being connected to a plurality of subscribers through subscriber lines, the feeder blocks being connected to a telecommunications trunk, and the feeder and distribution blocks
5 being cross-connected to provide voice telecommunications services to said subscribers, the method comprising the steps of:

providing an enlarged enclosure containing said feeder and distribution blocks;

10 incorporating into said enlarged enclosure, along with said feeder and distribution blocks, a digital subscriber line access multiplexer connected to a digital subscriber line provider through a high-speed interface; and

15 connecting said digital subscriber line access multiplexer through plural data connections to said distribution blocks for providing digital subscriber line service at least to selected ones of said subscribers.

20 4. The method according to claim 3, wherein the step of incorporating a digital subscriber line access multiplexer into said enlarged enclosure includes the step of incorporating additional distribution blocks into said enlarged enclosure.

25 5. The method according to claim 3, wherein the step of incorporating a digital subscriber line access multiplexer into said enlarged enclosure includes the step of incorporating additional feeder blocks into said enlarged enclosure.

30 6. The method according to claim 3, wherein the step of incorporating a digital subscriber line access multiplexer into said enlarged enclosure includes the step of incorporating additional distribution and feeder blocks into said enlarged enclosure.

35 7. A method of retrofitting a conventional telecommunications serving area interface to incorporate digital subscriber line service comprising removing an existing cross-connect cabinet, and substituting for the removed cabinet a new
40 cross-connect cabinet the interior of which contains two compartments, one compartment containing feeder and distribution blocks, and the other of the two compartments containing a

digital subscriber line access multiplexer and a splitter connected to said access multiplexer, and providing interconnections between the splitter in said other compartment and the feeder and distribution blocks in the one compartment.

5 8. A telecommunications interface comprising:
an enclosure;

feeder and distribution blocks within said enclosure, the
distribution blocks being connected to a plurality of
10 subscribers through subscriber lines, the feeder
blocks being connected to a telecommunications trunk,
and the feeder and distribution blocks being cross-
connected to provide voice telecommunications services
to said subscribers; and

15 a broadband electronic multiplexer connected to a provider
through a high-speed interface, and being connected
through plural data connections to said distribution
blocks for providing high speed, digital
telecommunications service at least to selected ones
20 of said subscribers;

wherein the multiplexer is also located within said
enclosure along with said feeder and distribution
blocks.

25 9. A telecommunications interface comprising:
an enclosure;

feeder and distribution blocks within said enclosure, the
distribution blocks being connected to a plurality of
subscribers through subscriber lines, the feeder
30 blocks being connected to a telecommunications trunk,
and the feeder and distribution blocks being cross-
connected to provide voice telecommunications services
to said subscribers; and

35 a digital subscriber line access multiplexer connected to a
digital subscriber line provider through a high-speed
interface, and being connected through plural data
connections to said distribution blocks for providing
digital subscriber line service at least to selected
ones of said subscribers.

40 10. The telecommunications interface according to Claim 9
wherein the digital subscriber line access multiplexer is also

located within said enclosure along with said feeder and distribution blocks.

11. The telecommunications interface according to claim 9,
5 including a splitter within said enclosure, wherein the digital subscriber line access multiplexer is connected to the splitter, and wherein at least selected terminals of the feeder blocks are also connected to the splitter.

10 12. The telecommunications interface according to Claim 11 wherein said plural data connections to said distribution blocks are constituted by connections from the splitter to the distribution blocks, whereby selected subscribers connected to
15 said distribution blocks are provided with both voice and digital subscriber line service over the same subscriber lines.

13. The telecommunications interface according to claim 9,
in which the enclosure is divided into plural, separate
20 compartments, a first of said compartments containing said feeder and distribution blocks, and a second of said compartments containing said digital subscriber line access multiplexer.

14. The telecommunications interface according to Claim 13
25 wherein said blocks being accessible for cross-connection through an opening in the enclosure through which the multiplexer is not accessible, and said multiplexer being accessible through an opening in said enclosure through which
30 said blocks are not accessible for cross-connection, in which said plural data connections extend from the first compartment to the second compartment.

15. The telecommunications interface according to Claim
14, whereby digital subscriber line service can be provided to
35 subscribers by cross-connections made solely in said first compartment.

16. The telecommunications interface according to claim 9,
in which the enclosure is divided into plural compartments
40 containing at least one of a following element from a list comprising:

said feeder and distribution blocks; and
said digital subscriber line access multiplexer.

17. The telecommunications interface according to Claim 16
5 wherein said blocks being accessible for cross-connection
through an opening in the enclosure through which the
multiplexer is not accessible, and said multiplexer being
accessible through an opening in said enclosure through which
said blocks are not accessible for cross-connection, in which
10 said plural data connections extend from the first compartment
to the second compartment.

18. The telecommunications interface according to Claim
17, wherein the number of said plural connections exceeds the
15 number of said selected ones of said subscribers, whereby
digital subscriber line service can be provided to additional
subscribers by cross-connections made solely in said first
compartment.

19. The telecommunications interface according to Claim
16, in which said compartments are separately lockable, whereby
access to one compartment can be denied to an individual worker
who is permitted access to the other compartment.

20. A telecommunications interface comprising:
25 a splitter within an enclosure, wherein the digital
subscriber line access multiplexer is connected to the splitter,
wherein at least selected terminals of feeder blocks are also
connected to the splitter, wherein plural data connections to
30 distribution blocks are constituted by connections from the
splitter to the distribution blocks whereby selected subscribers
connected to said distribution blocks are provided with both
voice and digital subscriber line service over the same
subscriber lines, and in which the enclosure is divided into
35 plural, separate compartments, a first of said compartments
containing said feeder and distribution blocks, and a second of
said compartments containing said digital subscriber line access
multiplexer and said splitter.

21. The telecommunications interface according to Claim
20, wherein said blocks being accessible for cross-connection
through an opening in the enclosure through which the

multiplexer and splitter are not accessible, and said multiplexer and splitter being accessible through an opening in said enclosure through which said blocks are not accessible for cross-connection.

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22. The telecommunications interface according to Claim 21 in which said plural data connections extend from said first compartment to said second compartment, and including plural voice connections from said feeder blocks in said first
10 compartment to said splitter in said second compartment, whereby digital subscriber line service, and combined voice and digital subscriber line service, can be provided to subscribers by cross-connections made solely in said first compartment.

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23. A telecommunications enclosure comprising:

a feeder block;

a distribution block;

subscriber lines coupled to the distribution block;

and

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a digital subscriber line access multiplexer coupled to the feeder block;

wherein the feeder block and the distribution block are cross-connected to provide voice telecommunications services to said subscribers; and

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wherein the digital subscriber line access multiplexer is connected to a digital subscriber line provider adapted to provide digital subscriber line service at least to selected ones of said subscribers.

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24. The telecommunications enclosure of claim 23, wherein the feeder block is coupled to a DLC cabinet exterior to the enclosure.